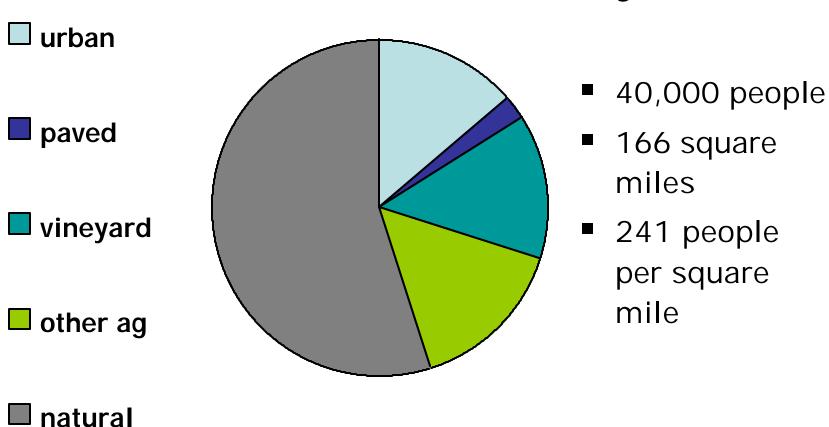


Land Use Intensity in Sonoma Valley



















The mission of the Sonoma Ecology Center is to work toward a condition of sustainable ecological health in the Sonoma Valley, through community-supported research, education, restoration, and preservation.





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Sonoma Valley Watershed Collaborators

Sonoma Creek Watershed Conservancy

- Sonoma Ecology Center
- Sonoma Valley Vintners and Growers Alliance
- Southern Sonoma County RCD

CA Coastal Conservancy
CA Dept. of Fish and Game
CA Dept. of Parks and Recreation
Landpaths, Bouverie Audubon Preserve
National Fish and Wildlife Foundation
National Marine Fisheries Service
North Bay Agricultural Alliance
Regional Water Quality Control Board
San Francisco Bay Joint Venture
San Francisco Estuary Institute

Sonoma City Planning Dept. and Commissions

Sonoma Community Center

Sonoma County Ag. Preservation and Open Space District

Sonoma County Water Agency

Sonoma State University, Santa Rosa Junior College

Sonoma Valley Chamber of Commerce

Sonoma Valley Unified School District

Sonoma Valley Visitors Bureau

Team Arundo del Norte

University of CA at Berkeley, Davis

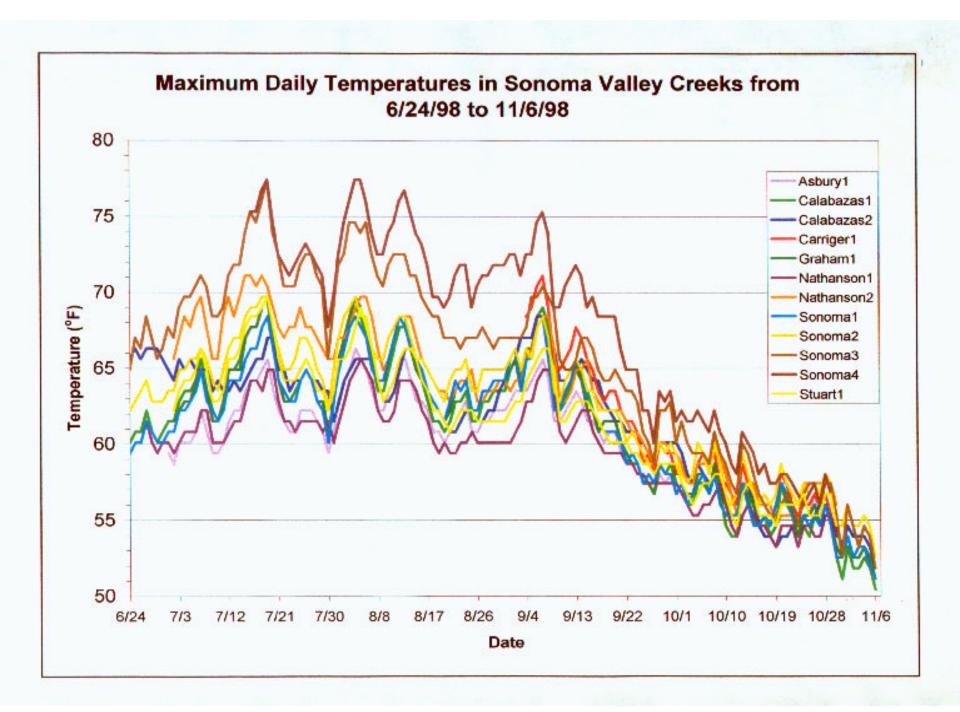
US Army Corps of Engineers

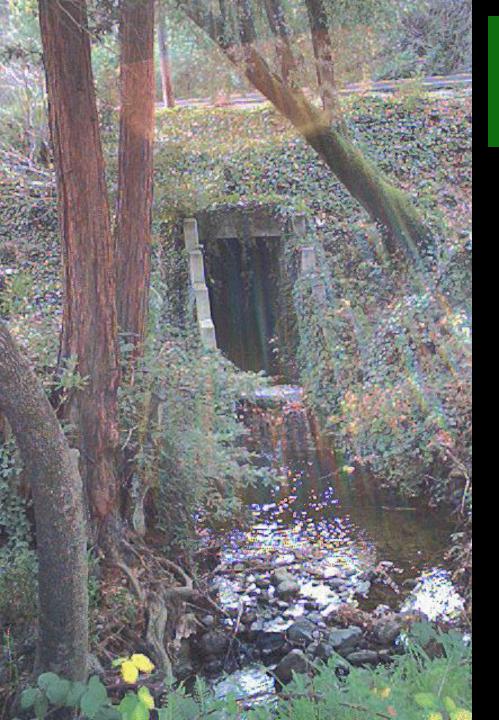
US EPA Region IX

US Fish and Wildlife Service

Funder	Project Type	\$1,000s	Start
	Animal waste systems	W MMCL. CL	1990
Northwest Emergency Assistance Project	Fish habitat survey	45	1995
CALFED Eco. Resto.	Instream habitat enhancement		1996
CALFED Eco. Resto.	K-12 watershed education		1996
CALFED Eco. Resto.	Landowner outreach and education		1996
CALFED Eco. Resto.	Supervised volunteer monitoring		1996
CALFED Eco. Resto.	Vineyard demonstration projects, ranch plans		1996
CALFED Eco. Resto.	Water temperature monitoring		1996
CALFED, DFG	Informational evening lectures		1996
SWRCB 319h	Watershed Enhancement Plan		1996
2	The Vineyard Manual		1999







Habitat Restoration (Asbury Creek Fish Passage Enhancement Project)





Non-native Pest Plant Removal Arundo donax Eradication Project





Evening informational talks since 1994

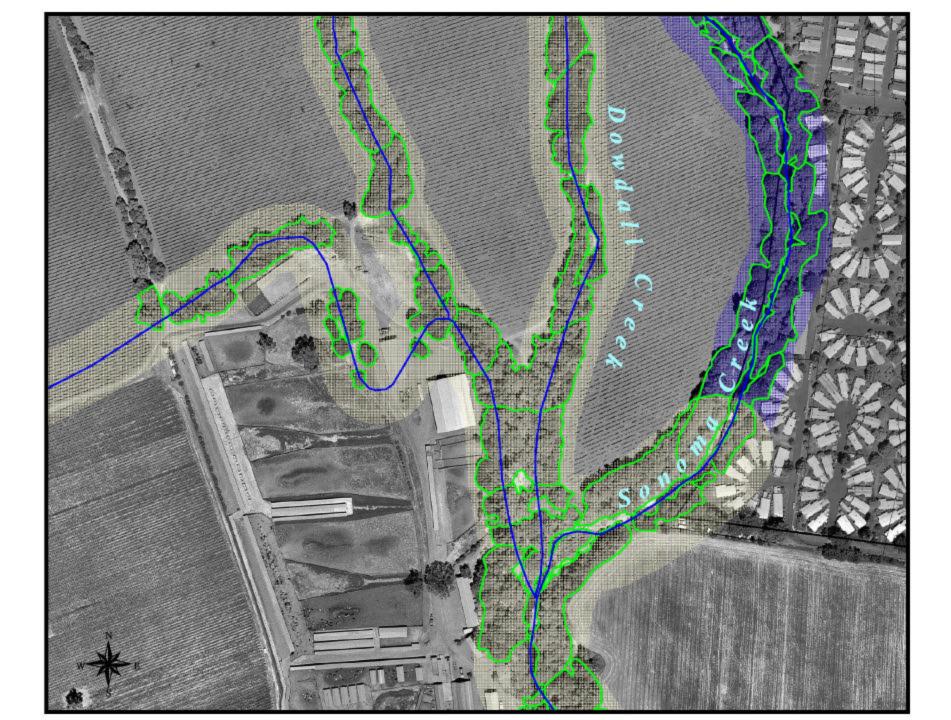
Funder	Project Type	\$1,000s	Start
CALFED Eco. Resto.	Fish passage repair		2000
SWRCB 319h	Eroding roads/trails in State		2000
	Parks		
	Creek Care Guide		2001
CALFED Eco. Resto.	Aquatic insect monitoring		2001
DFG	Landowner outreach and		2001
	assistance		
DFG, EPA	Fish habitat survey	75	2001
San Francisco Foundation	Monitoring sediment levels	30	2001
Sonoma Co. Water	Fish population census	40	2001
Agency	21 12		
Sonoma Co. Water	Re-establish USGS flow gage	75	2001
Agency, USGS			
CALFED Watershed	Channel rehabilitation	25	2002
CALFED Watershed	Fish population survey	40	2002
CALFED Watershed	Public outreach and	110	2002
	stakeholder coordination		
Switzer Foundation	Integration of watershed	50	2002
	data		

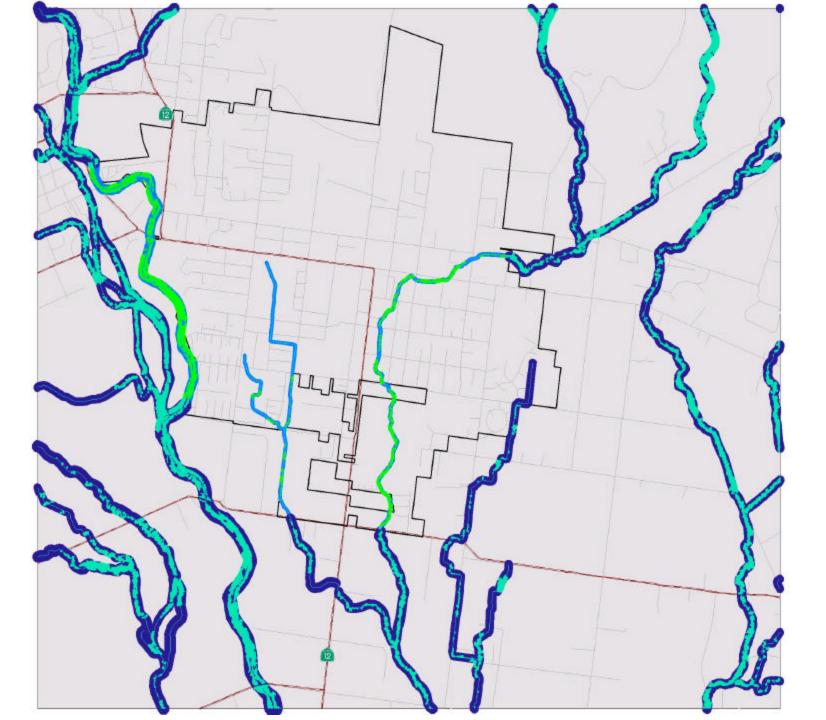
Funder	Project Type	\$1,000s	Start
Bella Vista Foundation	Fish passage barriers	44	2003
DFG	Eroding roads/trails in State Parks	29	2003
DFG	Fish passage barriers		2003
DFG	Riparian revegetation	9.9	2003
EPA Five-Star	K-12 education and restoration	14	2003
Prop 13	Channel rehabilitation	137	2003
Prop 13	Eroding roads/trails in State Parks	134	2003
Prop 13	Instream habitat restoration	21	2003
Prop 13	Public outreach	31	2003
Prop 13	Sediment budget	261	2003
RWQCB	Limiting Factors Analysis for steelhead	175	2003
USGS, Sonoma County	Groundwater study		2003
IFR/NOAA	Fish passage barriers	43	2004

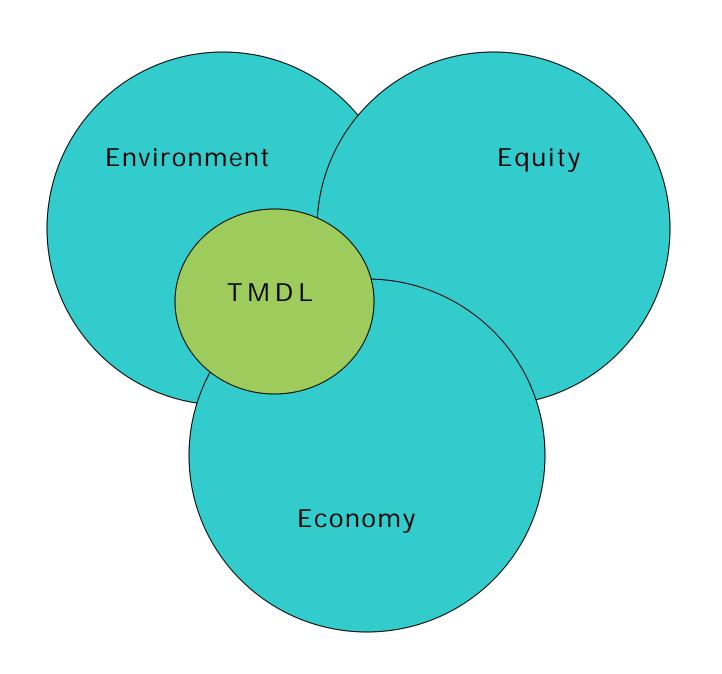


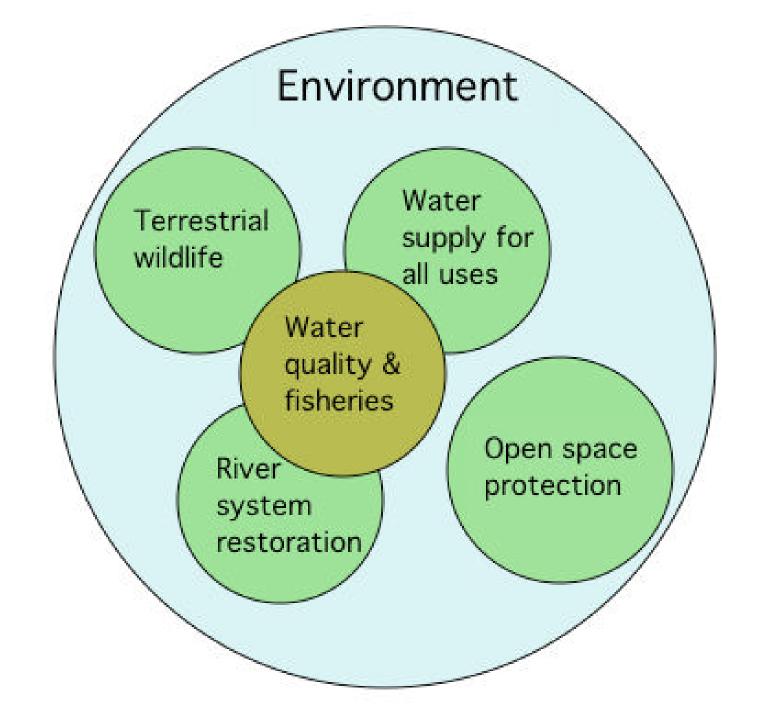


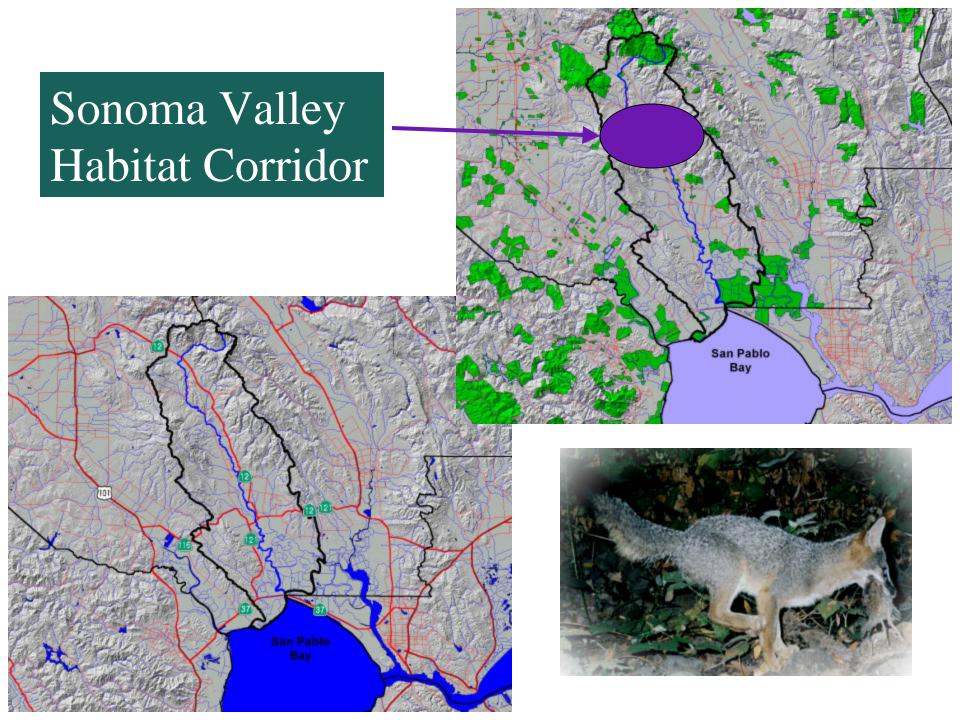




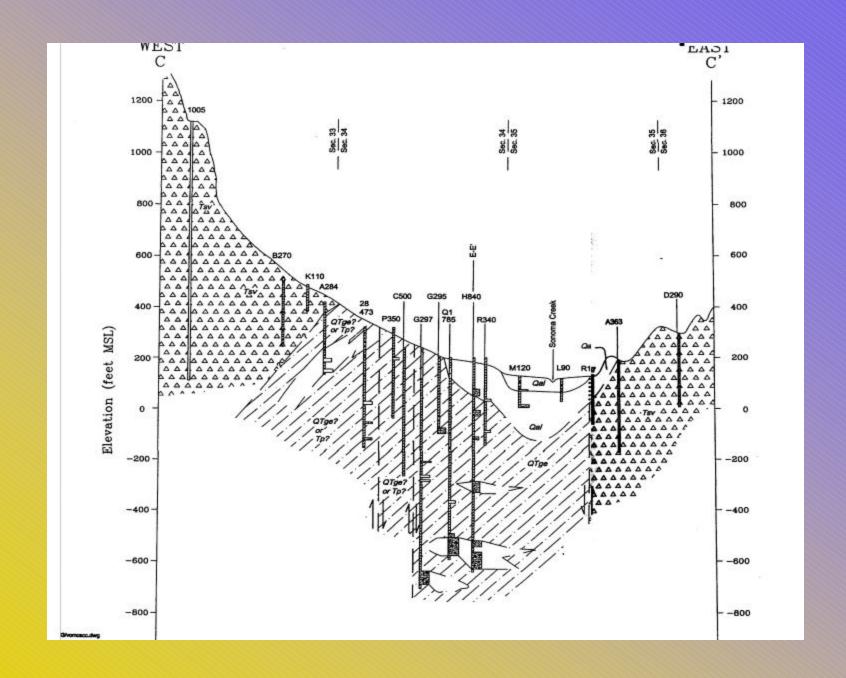










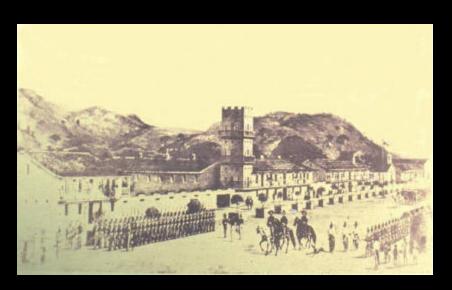


TMDL Negatives

- Not enough time or money to use local field data
- Confusion about outcomes
- Not enough involvement by affected parties
- Regulatory approach, with no adaptive management
- Water quantity issues left out

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Historical Ecology







TMDL Positives

- Brings parties to the table
- Easier to get some kinds of funding
- May improve water quality!

Wish List

- Funders support...
 - Link between water quality and quantity
 - Participation by local interests
 - Historical sources of water quality problems
- Specific examples of possible implementation measures
- Enforcement issues valued as highly as new regulations
- One more year

